#### IN THE CLAIMS:

Please cancel claims 1 to 15 without prejudice.

Please add new claims 16 to 30 as follows.

Claims 1 to 15. (Canceled).

#### Claim 16. (Re-presented, formerly claim 1).

Method for producing UV polarizers who polarizing effect is based on dichroitic absorption comprising

in a first step embedding metal ions in a glass body in a near-surface layer; and

in a second step tempering the glass to have the metal ions reduced to and precipitated in form of crystalline particles; and

in a third step an after-tempering takes place in a non-reducing atmosphere to transform the particles produced in the second step into particles of a larger size; and

in a fourth step embedding metal ions in the same manner as that done in the first step; and

in a fifth step tempering the glass again, with the metal ions embedded in the fourth step precipitating in the glass in a near-surface layer in form of crystalline particles that are of a lesser size than those created in the third step; and

in a sixth step deforming the glass body at temperatures near the glass transition temperature so that the particles of different sizes are all transformed into particles of revolution-ellipsoidal shapes with varying semiaxis ratios.

#### Claim 17. (Re-presented, formerly claim 2).

The method according to claim 16, wherein the method is repeated in the first step through to the third step followed by a step in which the glass is deformed as described in the sixth step, with large particles being re-shaped into revolution-ellipsoidal ones, followed by the fourth step, the fifth step and the sixth step.

#### Claim 18. (Re-presented, formerly claim 3).

Method according to claim 16, wherein the method is multi-copied in the first step through to the fifth step,

until the particles' size profile shows the specified broad distribution, followed by the sixth step.

## Claim 19. (Re-presented, formerly claim 4).

Method according to claim 16, wherein once all the steps as described are completed tempering the glass at a temperature above a specified lower cooling point and the particles of revolution-ellipsoidal shapes are re-deformed into their original shapes in a limited specific way.

### Claim 20. (Re-presented, formerly claim 5).

Method according to claim 16, wherein it is silver, gold, copper and/or aluminum ions, or their mixtures, that are embedded.

### Claim 21. (Re-presented, formerly claim 6).

Method according to claim 16, wherein a reduction process according to the second step takes place in a reducing atmosphere.

#### Claim 22. (Re-presented, formerly claim 7).

Method according to claim 16, wherein the reduction process of step 2 takes place in a hydrogen gas or in a hydrogen/nitrogen gas atmosphere.

### Claim 23. (Re-presented, formerly claim 8).

Method according to claim 16, wherein a reduction process according to the second step takes place in a non-reducing atmosphere with the metal ions being reduced by substances that are already existent in the glass and have a reducing effect.

### Claim 24. (Re-presented, formerly claim 9).

Method according to claim 16, wherein the third step takes place at a temperature above  $300^{\circ}\text{C}$ , but not exceeding  $700^{\circ}\text{C}$ .

## Claim 25. (Re-presented, formerly claim 10).

Method according to claim 16, wherein the glass is stretched in such a way that it becomes twice or even 30 times as long as it was before drawing.

# Claim 26. (Re-presented, formerly claim 11).

Method according to claim 16, wherein an only narrow heating zone is used in a continuous deforming process, and then drawing the glass, and after drawing, the glass is cooled down fast enough to prevent any re-deformation of the revolution-ellipsoidal particles.

# Claim 27. (Re-presented, formerly claim 12).

Method according to claim 16, wherein energy is locally applied to very narrow areas in the glass body's surface causing a specific re-deforming of the revolution-ellipsoidal particles.

## Claim 28. (Re-presented, formerly claim 13).

Method according to claim 27, wherein an energy input is made by means of laser and/or electron beam technology.

## Claim 29. (Re-presented, formerly claim 14).

Method according to claim 16, comprising masking a glass surface and etching away thin surface layers from it.

## Claim 30. (Re-presented, formerly claim 15).

Method according to claim 16, wherein a local energy input and/or a masking and etching away is used to produce polarizers of a structured design.